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81 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

82 A survey of approaches to automatic schema matching

Erhard Rahm, Philip A. Bernstein

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Full text available: pdf(196.22 KB) Additional Information: full citation, abstract, citings, index terms

Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant limitations. On the other hand, previous research papers have proposed many techniques to achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approach ...

Keywords: Graph matching, Machine learning, Model management, Schema integration, Schema matching

83 A framework for call graph construction algorithms

David Grove, Craig Chambers

November 2001 **ACM Transactions on Programming Languages and Systems**

(TOPLAS), Volume 23 Issue 6

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

A large number of call graph construction algorithms for object-oriented and functional languages have been proposed, each embodying different tradeoffs between analysis cost and call graph precision. In this article we present a unifying framework for understanding call graph construction algorithms and an empirical comparison of a representative set of algorithms. We first present a general parameterized algorithm that encompasses many well-known and novel call graph construction algorithms. W ...

Keywords: Call graph construction, control flow analysis, interprocedural analysis

84 Session P13: view-dependent techniques: Visualization of large terrains made easy

Peter Lindstrom, Valerio Pascucci

October 2001 **Proceedings of the conference on Visualization '01**

Full text available: pdf(2.21 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

We present an elegant and simple to implement framework for performing out-of-core visualization and view-dependent refinement of large terrain surfaces. Contrary to the recent trend of increasingly elaborate algorithms for large-scale terrain visualization, our algorithms and data structures have been designed with the primary goal of simplicity and efficiency of implementation. Our approach to managing large terrain data also departs from more conventional strategies based on data tiling. Rath ...

85 Information and control in gray-box systems

Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles**, Volume 35 Issue 5

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index terms

In modern systems, developers are often unable to modify the underlying operating system. To build services in such an environment, we advocate the use of *gray-box* techniques. When treating the operating system as a gray-box, one recognizes that not changing the OS restricts, but does not completely obviate, both the *information* one can acquire about the internal state of the OS and the *control* one can impose on the OS. In this paper, we develop and investigate three gray-bo ...

86 Session P1: point-based rendering and modeling: Point set surfaces

Marc Alexa, Johannes Behr, Daniel Cohen-Or, Shachar Fleishman, David Levin, Claudio T. Silva

October 2001 **Proceedings of the conference on Visualization '01**

Full text available: pdf(5.84 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

We advocate the use of point sets to represent shapes. We provide a definition of a smooth manifold surface from a set of points close to the original surface. The definition is based on local maps from differential geometry, which are approximated by the method of moving least squares (MLS). We present tools to increase or decrease the density of the points, thus, allowing an adjustment of the spacing among the points to control the fidelity of the representation.To display the point set surfac ...

Keywords: 3D acquisition, moving least squares, point sample rendering, surface representation and reconstruction

87 Using text processing techniques to automatically enrich a domain ontology
Paola Velardi, Paolo Fabriani, Michele Missikoff
October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**

Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings, index terms

Though the utility of domain Ontologies is now widely acknowledged in an increasing number of domains, several barriers must be overcome before Ontologies become practical and useful tools. A critical issue is the task of identifying, defining, and entering the concept definitions. In case of large and complex application domains this task can be lengthy, costly, and controversial (since different persons may have different points of view about the same concept). To reduce time, cost (an ...

88 Discovering critical edge sequences in E-commerce catalogs
Kaushik Dutta, Debra VanderMeer, Anindya Datta, Krithi Ramamritham
October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Full text available: pdf(270.53 KB) Additional Information: full citation, abstract, references, index terms

Web sites allow the collection of vast amounts of *navigational data* -- clickstreams of user traversals through the site. These massive data stores offer the tantalizing possibility of uncovering interesting patterns within the dataset. For e-businesses, always looking for an edge in the hyper-competitive online marketplace, this possibility is of particular interest. Of significant particular interest to e-businesses is the discovery of *Critical Edge Sequences* (CES), which denote f ...

Keywords: accuracy, approximation, critical edge sequence, web site performance, web usage analysis

89 Information Retrieval and Text Mining: Reorganizing web sites based on user access patterns
Yongjian Fu, Mario Creado, Chunhua Ju
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(528.33 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, an approach for reorganizing Web sites based on user access patterns is proposed. The approach consists of three steps: preprocessing, page classification, and site reorganization. In preprocessing, pages on a Web site are processed to create an internal representation of the site, and page access information of its users is extracted from its server log. In page classification, the Web pages on the site are classified into two categories, index pages and content pages, based on t ...

Keywords: access patterns, adaptive web wites, page classification, site reorganization, web usage mining

90 Portable resource control in Java
Walter Binder, Jane G. Hulaas, Alex Villazón
October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications**, Volume 36 Issue 11

Full text available: pdf(307.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Preventing abusive resource consumption is indispensable for all kinds of systems that execute untrusted mobile coee, such as mobile object sytems, extensible web servers, and web browsers. To implement the required defense mechanisms, some support for resource control must be available: accounting and limiting the usage of physical resources like CPU and memory, and of logical resources like threads. Java is the predominant implementation language for the kind of systems envisaged here, even th ...

Keywords: Java, bytecode rewriting, micro-kernels, mobile object systems, resource control, security

91 Designing data marts for data warehouses

October 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Issue 4

Full text available: pdf(203.43 KB) Additional Information: full citation, abstract, references, index terms, review

Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...

Keywords: conceptual modeling, data mart, data warehouse, design method, software quality management

92 Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases

Christian Böhm, Stefan Berchtold, Daniel A. Keim

September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

93 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

94 An architecture to support scalable online personalization on the Web

Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B. Navathe
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1
Full text available: pdf(167.25 KB) Additional Information: full citation, abstract, citings, index terms

Online personalization is of great interest to e-companies. Virtually all personalization technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

95 ObjectGlobe: Ubiquitous query processing on the Internet
R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1
Full text available: pdf(251.44 KB) Additional Information: full citation, abstract, citings, index terms

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

96 Searching the Web
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1
Full text available: pdf(319.98 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

97 Locating application data across service discovery domains
Paul Castro, Benjamin Greenstein, Richard Muntz, Parviz Kermani, Chatschik Bisdikian, Maria Papadopouli
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Full text available: pdf(4.38 MB) Additional Information: full citation, abstract, references, citings, index terms

The bulk of proposed pervasive computing devices such as PDAs and cellular telephones operate as thin clients within a larger infrastructure. To access services within their local environment, these devices participate in a service discovery protocol which involves a master directory that registers all services available in the local environment. These directories typically are isolated from each other. Devices that move across service discovery domains have no access to information outside t ...

98 Loop optimization for a class of memory-constrained computations



D. Cociorva, J. W. Wilkins, C. Lam, G. Baumgartner, J. Ramanujam, P. Sadayappan
June 2001 **Proceedings of the 15th international conference on Supercomputing**

Full text available: pdf(160.59 KB) Additional Information: full citation, abstract, references, citings, index terms

Compute-intensive multi-dimensional summations that involve products of several arrays arise in the modeling of electronic structure of materials. Sometimes several alternative formulations of a computation, representing different space-time trade-offs, are possible. By computing and storing some intermediate arrays, reduction of the number of arithmetic operations is possible, but the size of intermediate temporary arrays may be prohibitively large. Loop fusion can be applied to reduce memor ...

99 Using self-diagnosis to adapt organizational structures



Bryan Horling, Brett Benyo, Victor Lesser
May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available: pdf(109.37 KB) Additional Information: full citation, abstract, references, citings, index terms

The specific organization used by a multi-agent system is crucial for its effectiveness and efficiency. In dynamic environments, or when the objectives of the system shift, the organization must therefore be able to change as well. In this paper we propose using a general diagnosis engine to drive this process of adaptation, using the \tems\ modeling language as the primary representation of organizational information. Results from experiments employing such a system in the Producer-Cons ...

Keywords: organization and social structure, organization self-design

100 Indexing very high-dimensional sparse and quasi-sparse vectors for similarity searches



Changzhou Wang, X. Sean Wang
April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available: pdf(359.20 KB) Additional Information: full citation, abstract, citings, index terms

Similarity queries on complex objects are usually translated into searches among their feature vectors. This paper studies indexing techniques for very high-dimensional (e.g., in hundreds) vectors that are sparse or quasi-sparse, i.e., vectors *each* having only a small number (e.g., ten) of non-zero or significant values. Based on the R-tree, the paper introduces the xS-tree that uses lossy compression of bounding regions to guarantee a reasonable minimum fan-out within the allocated stora ...

Keywords: High-dimensional indexing structure, Lossy compression, Quasi-sparse vector, Similarity search, Sparse vector

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